## AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

1. (currently amended) A semiconductor device manufacturing method, comprising the steps of:

forming a trench by etching a silicon substrate;

forming a silicon nitride film along an inner wall of said trench; and

converting only a part of a surface of said silicon nitride film to a non-silicon-nitride type insulator film.

2. (currently amended) A semiconductor device manufacturing method, comprising the steps of:

forming a trench by etching a silicon substrate;

forming a silicon nitride film along an inner wall of said trench;

forming a first embedded insulator film inside said trench, said first embedded insulator film having a film thickness so as not to completely fill said trench;

converting only a part of a surface of said silicon nitride film into a non-silicon-nitride type insulator film,

said part of said surface being exposed from said first embedded insulator film; and

forming a second embedded insulator film on said first embedded insulator film  $\frac{1}{2}$  and  $\frac{1}{2}$  so that said trench  $\frac{1}{2}$  filled with said first and second embedded insulator films.

- 3. (original) The semiconductor device manufacturing method according to claim 2, further comprising, prior to the step of forming said silicon nitride film along said inner wall of said trench, a step of oxidizing said inner wall of said trench to form a silicon oxide film.
- 4. (original) The semiconductor device manufacturing method according to claim 2, wherein

said non-silicon-nitride type insulator film is positioned lower than a channel depth of a MOS transistor to be formed on said silicon substrate.

5. (currently amended) The semiconductor device manufacturing method according to claim 2, wherein

said part of <u>said surface of</u> said silicon nitride film is converted into said non-silicon-nitride type insulator film by using an ISSG oxidation method.

6. (currently amended) The semiconductor device manufacturing method according to claim 2, wherein

the step of converting said part of <u>said surface of</u>
said silicon nitride film into said non-silicon-nitride type
insulator film and the step of forming said second embedded
insulator film on said first embedded insulator film are
successively performed in a same apparatus.

7. (original) The semiconductor device manufacturing method according to claim 2, wherein

said first embedded insulator film is formed by either one of a pyrolytic CVD method using  $O_3\text{-TEOS}$  as a source gas and an HDP-CVD method.

8. (original) The semiconductor device manufacturing method according to claim 2, wherein

at least one of said first and second embedded insulator films is formed by using a coating method.

9. (original) The semiconductor device manufacturing method according to claim 8, wherein

said insulator film formed by the coating method is a polysilazane-type SOG film or an SOG film including porous silica.